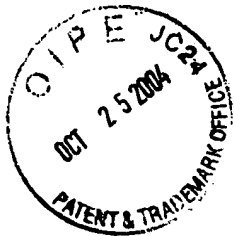


IFW



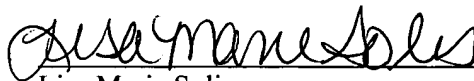
**PATENT**  
**ASC-025DV2C1 (5473/180)**

***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE***

**APPLICANT:** Cheng *et al.*      **CONFIRMATION NO.:** 3869  
**SERIAL NUMBER:** 10/802,186      **ART UNIT:** 2812  
**FILING DATE:** March 17, 2004      **EXAMINER:** Not yet assigned  
**TITLE:** PROCESS FOR PRODUCING SEMICONDUCTOR ARTICLE USING  
GRADED EPITAXIAL GROWTH

**CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8**

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Office of Initial Patent Examination, Customer Service Center, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 22 day of October, 2004.

  
Lisa Marie Solis

Office of Initial Patent Examination  
Customer Service Center  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith are:

1. Transmittal Form (1 pg.);
2. Request for Corrected Filing Receipt (2 pgs.);
3. Marked-up Copy of Official Filing Receipt (2 pgs.);
4. Copy of listing of Patent Practitioners of Record Under 37 C.F.R. § 1.32(c)(3) (1 pg.); and
5. Return Receipt Postcard.



# TRANSMITTAL FORM

Application Serial Number	10/802,186
Filing Date	March 17, 2004
First Named Inventor	Cheng
Group Art Unit	2812
Examiner Name	Not Yet Assigned
Attorney Docket No.	ASC-025DV2C1
Confirmation No.	3869
Patent No.	Not applicable
Issue Date	Not applicable

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553) <input type="checkbox"/> Formal Drawing(s) <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> CD(s) for large table or computer program <input type="checkbox"/> Amendment After Allowance <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <input type="checkbox"/> Appeal Brief (in triplicate) <input type="checkbox"/> Status Inquiry <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 <input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below) <input checked="" type="checkbox"/> Request for Corrected Filing Receipt <input checked="" type="checkbox"/> Marked-up copy of Official Filing Receipt <input checked="" type="checkbox"/> Copy of listing of Patent Practitioners of Record Under 37 C.F.R. § 1.32(c)(3)
<input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets _____] <input type="checkbox"/> Petition for Extension of Time <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Form PTO-1449 <input type="checkbox"/> Copies of IDS Citations <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above		

## CORRESPONDENCE ADDRESS

Direct all correspondence to: Patent Administrator  
Testa, Hurwitz & Thibault, LLP  
High Street Tower  
125 High Street  
Boston, MA 02110  
Tel. No.: (617) 248-7000  
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## SIGNATURE BLOCK

Date: October 24, 2004  
Reg. No. 44,381  
Tel. No.: (617) 310-8327  
Fax No.: (617) 248-7100

Respectfully submitted,

Natasha C. Us  
Attorney for Applicant  
Testa, Hurwitz & Thibault, LLP  
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125 High Street  
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PATENT  
Attorney Docket No. ASC-025DV2C1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT(S): Cheng *et al.* CONFIRMATION NO.: 3869  
SERIAL NO.: 10/802,186 GROUP NO.: 2812  
FILING DATE: March 17, 2004 EXAMINER: Not yet assigned  
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GRADED EPITAXIAL GROWTH

Office of Initial Patent Examination  
Customer Service Center  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST FOR CORRECTED FILING RECEIPT**

- Attached is a copy of the official filing receipt received from the Patent Office for the above-identified application for which issuance of a corrected filing receipt is respectfully requested.
- There is an error with respect to the following data, which is:

☒ incorrectly entered

*and/or*

☐ omitted

***Error In***

***Correct Data***

- |  |                     |
|--|---------------------|
| 1. <input type="checkbox"/> Applicant's name                     | 1.                  |
| 2. <input type="checkbox"/> Applicant's address                  | 2.                  |
| 3. <input type="checkbox"/> Title                                | 3.                  |
| 4. <input type="checkbox"/> Filing Date                          | 4.                  |
| 5. <input type="checkbox"/> Serial Number                        | 5.                  |
| 6. <input type="checkbox"/> Foreign/PCT Application Re:          | 6.                  |
| 7. <input checked="" type="checkbox"/> Other – Power of Attorney | 7. See Chart below: |

**INCORRECT DATA**

Maurice Edward Gauthier – 20798  
Patrick O'Shea – 35305  
I. Stephen Samuels – 20919  
Arlene Powers – 35985  
Richard L. Stevens – 24445  
Richard Stevens Jr. – 44357  
Matthew Connors – 33298  
William Hilton – 35192

**CORRECT DATA**

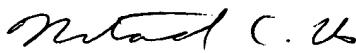
John J. Cotter – 38116  
Natasha C. Us – 44381  
Steven J. Frank – 33497  
Christopher W. Stamos – 35370  
Robert J. Tosti – 35393  
Douglas J. Kline – 35574  
Thomas A. Turano – 35722  
Mark L. Beloborodov – 50773  
Michael H. Brodowski – 41640  
Brian M. Gaff – 44691

3. Attached is a copy of the listing of Patent Practitioners of Record under 37 C.F.R. § 1.32(c)(3) that was filed with the Patent Office on October 22, 2004.

Respectfully submitted,

Date: October 22, 2004  
Reg. No. 44,381

Tel. No.: (617) 310-8327  
Fax No.: (617) 248-7100

  
\_\_\_\_\_  
Natasha C. Us  
Attorney for Applicant  
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## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/802,186	03/17/2004	2812	770	ASC-025DV2C1	5	16	1

CONFIRMATION NO. 3869

021323

TESTA, HURWITZ & THIBEAULT, LLP  
HIGH STREET TOWER  
125 HIGH STREET  
BOSTON, MA 02110

## FILING RECEIPT



\*OC000000013998156\*

OCT 01 2004  
TESTA, HURWITZ & THIBEAULT, LLP  
PATENT DEPARTMENT

Date Mailed: 10/04/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Zhi-Yuan Cheng, Cambridge, MA;  
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Dimitri A. Antoniadis, Newton, MA;  
Judy L. Hoyt, Belmont, MA;

## Assignment For Published Patent Application

Massachusetts Institute of Technology, Cambridge, MA

## Power of Attorney:

MAURICE EDWARD GAUTHIER - 20798 Patrick O'Shea - 35305 John J. Cotter - 38116 Natasha C. us - 44381  
I. Stephen Samuels - 20919 Arlene Powers - 35985 Steven J. Frank - 33497 Christopher W. Stans - 35370  
RICHARD L. STEVENS - 24445 Richard Stevens Jr - 44357 Robert J. Tosti - 35393 Douglas J. Kline - 35574  
Matthew Connors - 33298 Thomas A. Turano - 35722 Michael H. Brodowski - 41640  
William Hilton - 35102 Mark L. Beloborodov - 50773 Brian M. Gaff - 44691

## Domestic Priority data as claimed by applicant

This application is a CON of 10/379,355 03/04/2003 PAT 6,713,326  
which is a DIV of 09/928,126 08/10/2001 PAT 6,573,126  
which claims benefit of 60/225,666 08/16/2000

## Foreign Applications

If Required, Foreign Filing License Granted: 06/03/2004

The number of your priority application, to be used for filing abroad under the Paris Convention is,  
**US10/802,186**

Projected Publication Date: 01/13/2005

Non-Publication Request: No

Early Publication Request: No

**Title**

Process for producing semiconductor article using graded epitaxial growth

**Preliminary Class**

438

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Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

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# COPY

PATENT

Attorney Docket No. ASC-025DV2C1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT(S): Cheng *et al.* CONFIRMATION NO.: 3869  
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GRADED EPITAXIAL GROWTH

Mail Stop Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**PATENT PRACTITIONERS OF RECORD UNDER 37 C.F.R. § 1.32(c)(3)**

Dear Sir:

Under 37 C.F.R. § 1.32 (c)(3), the following patent practitioners listed on the Declaration and Power of Attorney For Utility or Design Patent Application submitted with the filed Application on April 16, 2004, should be recognized by the U.S. Patent and Trademark Office as being of record in the above-identified patent application to which the power of attorney is directed.

1.	John J. Cotter	Registration No.	38,116
2.	Natasha C. Us	Registration No.	44,381
3.	Steven J. Frank	Registration No.	33,497
4.	Christopher W. Stamos	Registration No.	35,370
5.	Robert J. Tosti	Registration No.	35,393
6.	Douglas J. Kline	Registration No.	35,574
7.	Thomas A. Turano	Registration No.	35,722
8.	Mark L. Beloborodov	Registration No.	50,773
9.	Michael H. Brodowski	Registration No.	41,640
10.	Brian M. Gaff	Registration No.	44,691

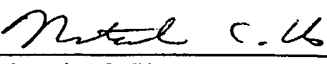
The Patent Office is requested to contact the undersigned with any questions.

Respectfully submitted,

Date: October 22, 2004  
Reg. No. 44,381

Tel. No.: (617) 310-8327  
Fax No.: (617) 248-7100

3131438-1

  
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